

18/5/7

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Improved yeast expression system - in which new host can express specific protein, in which expression cassettes are integrated in different chromosomes or same chromosome in same host

Patent Assignee: TONEN CORP (TOFU )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 5292972	A	19931109	JP 91188794	A	19910729	199349 B

Priority Applications (No Type Date): JP 91188794 A 19910729

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 5292972	A	12	C12N-015/14	

Abstract (Basic): JP 5292972 A

New host can express specific protein, in which expression cassettes are integrated in the different chromosomes or different sites of the same chromosome in the same host. Expression cassette contains promoter and DNA that encodes fused and specific protein in the downstream. Host is cultured, followed by collecting specific protein from the culture. Pref. (1) host is yeast; (2) promoter is modified promoter, that contains yeast alcohol dehydrogenase I promoter, and a part of yeast glyceryl aldehyde-3-phosphate dehydrogenase promoter, and it exists in different expression cassette; (3) protein is human serum albumin; (4) expression cassette integrating site is leu 2 or his 4 position, on the yeast chromosome; (5) second expression is introduced with human serum albumin high expressible plasmid pRGU-N7-TLy 1; (6) to yeast that contains the first expression cassette fused with yeast alcohol dehydrogenase promoter and prepro-human serum albumin cDNA, at his 4 position, the second expression cassette is introduced to the expression plasmid pRGUON7-TLy 1; (7) first expression cassette contg. yeast can produce human serum albumin efficiently, by mutation; (8) the mutant is 222 strain; (9) the host is respiratory activity deleted strain; (10) the high respiratory ability and high human serum albumin producible host is obtd., by conjugation of the strain (9) with high respiratory activity and highly growthable yeast strain; and (11) the specific protein is human serum albumin.

USE/ADVANTAGE - Expression amt. increase to 4 fold.

Dwg.0/0

Title Terms: IMPROVE; YEAST; EXPRESS; SYSTEM; NEW; HOST; CAN; EXPRESS;  
SPECIFIC; PROTEIN; EXPRESS; CASSETTE; INTEGRATE; CHROMOSOME; CHROMOSOME;  
HOST

Derwent Class: B04; D16

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